

# Patent Abstracts of Japan

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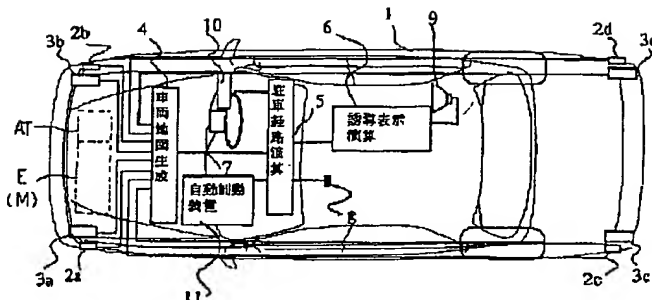
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TITLE : PARKING GUIDING DEVICE



**ABSTRACT :** PROBLEM TO BE SOLVED: To exactly guide a vehicle along a parking route by calculating a parking location and the parking route and automatically stopping the vehicle at a steering point on the parking route when the vehicle is guided to the parking location.

**SOLUTION:** A vehicle map generator 4 processes images of a vehicle surrounding environment for which image pickups are performed by CCD cameras 2a to 2d, detects a white line, detects vehicle surrounding obstacles by laser radars 3a to 3d, synthesizes a white line map and an obstacle map and prepares a vehicle surrounding map. A parking route arithmetic device 5 calculates a parking location and the parking route based on the vehicle surrounding map formed by the vehicle map generator 4. A guide display arithmetic device 6 calculates a method for instructing a driver on driving operations such as a handle operation, an accel/brake operation and a transmission operation by sound by a speaker 9 and the display by a display 10. An automatic controller 11 controls a braking mechanism of the vehicle and stops the vehicle at a steering point on the parking route.

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